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**System Log Commands**



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# Chapter 1 System Log Commands

## 1.1 logging console

### [Function]

Configure and start to print the log information and parameters of console, the **no** command will disable the logging information print.

### [Command Format]

**logging console** {<0-7> | *alerts* | *critical* | *debugging* | *emergencies* | *errors* | *informational* | *notifications* | *warnings*}

**no logging console**

### [Parameter]

<0-7>: log severity

*alerts*: need action immediately (severity=1)

*critical*: serious state (severity =2)

*debugging*: debug information (severity =7)

*emergencies*: system can not use (severity =0)

*errors*: error condition (severity =3)

*informational*: informational event (severity =6)

*notifications*: normal event under critical condition (severity=5)

*warnings*: warning condition (severity=4)

### [Default]

Enable and the severity is **informational**

### [Command Modes]

Global configuration mode; Privileged EXEC

### [Executing Command Instruction]

Use this command to configure print logging information to console.

Severity of logging information.

Grade key words	Severity	Description
<b>emergencies</b>	0	System can not use
<b>alerts</b>	1	Need action immediately
<b>critical</b>	2	Serious event
<b>errors</b>	3	Error event
<b>warnings</b>	4	Warning event
<b>notifications</b>	5	Normal but critical
<b>informational</b>	6	Inform message

<b>debugging</b>	7	Debug information
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**[Command Executing Echo]**

*Set console logging information successfully*

**[Example]**

Configure the severity level of logging console as alerts:

**Raisecom(config)#logging console alerts**

**[Related commands]**

<b>Commands</b>	<b>Description</b>
<b>Logging monitor</b>	Enable output direction of log monitor.
<b>logging host</b>	Enable output direction of log host.
<b>logging file</b>	Enable output direction of log file
<b>logging on</b>	Enable log function
<b>logging time-stamp</b>	Set time stamp of log information
<b>logging rate</b>	Set output speed of log
<b>show logging</b>	Show log information

## 1.2 logging file

**[Function]**

Configure and start to record logging file to flash file, the **no** command will disable events to be logged in log output direction.

**[Command Format]**

**logging file**

**no logging file**

**[Default]**

Enable log information to logging file.

The mode of output is config

**[Command Modes]**

Global configuration mode; Privileged EXEC.

**[Executing Command Instruction]**

Use this command to output log information to flash file.

**[Explanation of command execution echo]**

*Set successfully.*

**[Example]**

Use this command to record log information in logging file.

**Raisecom(config)#logging file**

[Related commands]

Commands	Description
<b>Logging console</b>	Enable output direction of log console
<b>logging monitor</b>	Enable output direction of log monitor.
<b>logging file</b>	Enable output direction of log file.
<b>logging on</b>	Enable log function
<b>logging time-stamp</b>	Set time stamp of log information
<b>logging rate</b>	Set output speed of log
<b>show logging</b>	Show log information

### 1.3 logging host

[Function]

Configure and start to log events and parameters to assigned PC, the **no** command will disable the log.

[Command Format]

**logging host A.B.C.D {local0/local1/local2/local3/local4/local5/local6/local7} {<0-7>|alerts/critical/debugging/emergencies/errors/informational/notifications/warnings}**

**no logging host A.B.C.D**

[Parameter]

*local0-local7*: equipment name of log host

*<0-7>*: log grade

*alerts*: need action immediately (severity=1)

*critical*: serious state (severity =2)

*debugging*: debug information (severity =7)

*emergencies*: system not available (severity =0)

*errors*: error condition (severity =3)

*informational*: informational event (severity =6)

*notifications*: normal and critical event (severity =5)

*warnings*: warning condition (severity=4)

[Default]

No assigned log host

[Command Modes]

Global configuration mode; Privileged EXEC.

[Executing Command Instruction]

Use this command to configure the assigned log host and the log severity.

Log description of log host:

Grade keywords	Grade	Description
<b>emergencies</b>	0	System not available
<b>alerts</b>	1	Need action immediately
<b>critical</b>	2	Serious event
<b>errors</b>	3	Error event
<b>warnings</b>	4	Warning event
<b>notifications</b>	5	Normal but critical event
<b>informational</b>	6	Inform message
<b>debugging</b>	7	Debug information

**[Explanation of command execution echo]**

*Set log host logging information successfully.*

*Set log host logging information unsuccessfully.*

**[Example]**

Set log grade of the logging host as alearts and all of the information lower or equal to this log grade will be output to the host:

Raisecom(config)# **logging host 10.0.0.1 local7 alerts**

**[Related commands]**

Commands	Description
<b>Logging console</b>	Enable output direction of log console
<b>logging monitor</b>	Enable output direction of log monitor
<b>logging file</b>	Enable output direction of log file
<b>logging on</b>	Enable log function
<b>logging time-stamp</b>	Set time stamp of log information
<b>logging rate</b>	Set output speed of log
<b>show logging</b>	Show log information

## 1.4 logging monitor

**[Function]**

Configure and start to output log information to monitor and paramter, **no** format command will disable this function.

**[Command Format]**

**logging monitor** {<0-7> | *alerts* | *critical* | *debugging* | *emergencies* | *errors* | *informational* | *notifications* | *warnings*}

**no logging monitor**

**[Parameter]**

<0-7>: log grade

*alerts*: need action immediately (severity=1)

*critical*: serious state (severity =2)

- debugging*: debug information (severity =7)
- wmergencies*: system can not use (severity =0)
- wrrors*: error condition (severity =3)
- informational*: informational event (severity =6)
- notifications*: normal but critical event (severity =5)
- warnings*: warning condition (severity =4)

**[Default]**

Disable

**[Command Modes]**

Global configuration mode; privileged user.

**[Executing Command Instruction]**

Configure output log information to monitor by this command.

Severity description:

Grade keywords	Grade	Description
<b>emergencies</b>	0	System not available
<b>alerts</b>	1	Need action immediately
<b>critical</b>	2	Serious event
<b>errors</b>	3	Error event
<b>warnings</b>	4	Warning event
<b>notifications</b>	5	Normal but critical
<b>informational</b>	6	Inform message
<b>debugging</b>	7	Debug information

**[Explanation of command execution echo]**

*Set monitor logging information successfully*

**[Example]**

This command set record log grade of monitor is alters, all message that is lower than it will output to monitor:

Raisecom(config)#**logging monitor alerts**

**[Related commands]**

Commands	Description
<b>Logging console</b>	Enable output direction of log console
<b>logging host</b>	Enable output direction of log host
<b>logging file</b>	Enable output direction of log file
<b>logging on</b>	Enable the log function
<b>logging time-stamp</b>	Set time stamp of log information
<b>logging rate</b>	Set output speed of log
<b>show logging</b>	show log information

## 1.5 logging on

### [Function]

Use **logging on** to enable log function, use **no logging on** to disable log function.

### [Command Format]

**[no] logging on**

### [Default]

Log function is enabled

### [Command Modes]

Global configuration mode; privileged user.

### [Executing Command Instruction]

Enable log function

### [Explanation of command execution echo]

*Set successfully.*

*Set unsuccessfully.*

### [Example]

Enable log function:

Raisecom(config)#**logging on**

### [Related commands]

Commands	Description
<b>Logging console</b>	enable output direction of log console
<b>logging monitor</b>	enable output direction of log monitor
<b>logging file</b>	enable output direction of log file
<b>logging time-stamp</b>	Set time stamp of log information
<b>logging rate</b>	set output speed of log
<b>show logging</b>	show log information

## 1.6 logging rate

### [Function]

Set sending speed of log information, use **no** to restore default setting.

### [Command Format]

**logging rate** <1-65535>

**no logging rate**

### [Parameter]

<1-1000>: Log number to send every second

**[Default]**

Not limit sending speed of log

**[Command Modes]**

Global configuration mode and Privileged EXEC

**[Executing Command Instruction]**

Set send speed of log information

**[Explanation of command execution echo]**

*Set successfully.*

*Set unsuccessfully.*

**[Example]**

Set every second to send 100 item logs most:

Raisecom(config)# **logging rate 100**

**[Related commands]**

Commands	Description
<b>Logging console</b>	enable output direction of log console
<b>logging monitor</b>	enable output direction of log monitor
<b>logging file</b>	enable output direction of log file
<b>logging time-stamp</b>	Set time stamp of log information
<b>show logging</b>	show log information

## 1.7 logging time-stamp

**[Function]**

Set time stamp of log information, use **no** to restore default value.

**[Command Format]**

**logging time-stamp** {*standard* | *relative-start* | *null*}

**[no] logging time-stamp**

**[Parameter]**

*date-time*: Absolute time after startup

*relative-start*: relative time of system enabled

*null*: not add time stamp

**[Default]**

Use date-time

**[Command Modes]**

Global configuration mode and Privileged EXEC

**[Executing Command Instruction]**

Use this command to set time stamp information of system using.

Date-time mmm-dd-yyyy hh-mm-ss

Relative time hh-mm-ss

**[Explanation of command execution echo]**

*Set successfully.*

*Set unsuccessfully.*

**[Example]**

Enable log relative time:

Raisecom(config)#**logging time-stamp relative-start**

**[Related commands]**

Commands	Description
<b>Logging console</b>	enable output direction of log console
<b>logging monitor</b>	enable output direction of log monitor
<b>logging file</b>	enable output direction of log file
<b>logging rate</b>	Set output speed of log
<b>show logging</b>	show log information

## 1.8 show logging

**[Function]**

Show log information.

**[Command Format]**

**show logging** [*file*]

**[Parameter]**

*file*: show the logging information which is stored in the file.

**[Command Modes]**

Privileged EXEC; privileged user.

**[Executing Command Instruction]**

Use this command to show the logging configuration information or logging information in the logging information saved in the logging file.

**[Explanation of command execution echo]**

Show logging information:

Raisecom#**show logging**

*Syslog logging: enable, 0 messages dropped, messages rate-limited 0 per second*

*Console logging: enable, level=debug ,22 Messages logged*

Monitor logging: disable, level=info ,0 Messages logged

Time-stamp logging messages: enable

Log host Information:

Target Address	Level	Facility	Sent	Drop
192.168. 1. 9	debug	local7	11	11
192.168. 1.185	debug	local7	11	11

Show the information saved in the logging file:

Raisecom#show logging file

Logging information in file

- DEC-31-1999 00:04:45 SYS-1-START-A:System startup
- DEC-31-1999 00:16:40 SYS-1-START-A:System startup
- DEC-31-1999 03:54:37 SYS-1-START-A:System startup
- DEC-31-1999 05:24:22 SYS-1-WRITE-A:Write system configuration
- DEC-31-1999 04:02:35 SYS-1-START-A:System startup
- DEC-31-1999 05:34:36 SYS-1-WRITE-A:Write system configuration
- DEC-31-1999 05:37:41 SYS-1-WRITE-A:Write system configuration

[Example]

Show the log information saved in the file:

Raisecom#show logging file

[Related commands]

Commands	Description
<b>Logging console</b>	Start the console output direction of the logging file.
<b>logging monitor</b>	Start the monitor output direction of the logging file.
<b>logging file</b>	Start the output direction of logging file.
<b>logging time-stamp</b>	Set the time-stamp of logging information.



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